

## CLAIMS:

1. A medical measuring device (10) comprising at least one measuring apparatus (12, 14), which has at least one sensor (16, 18) for generating a measuring signal of a patient (20, 22) and a measuring data detection device (24) which is designed to exchange measuring signals with the at least one measuring apparatus (12, 14) via an, in particular, wireless  
5 communication route (24, 26), wherein the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring signals.
2. A medical measuring device as claimed in claim 1, characterized in that the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring  
10 signals acoustically (28, 30).
3. A medical measuring device as claimed in claim 1 or 2, characterized in that the at least one measuring apparatus is designed to signal the quality of the measuring signals  
15 optically (32, 34).
4. A medical measuring device as claimed in claim 3, characterized in that the at least one measuring apparatus has a light means (32, 34) with different colors, each color being associated with a predetermined range of a signal quality and activated when the quality of the measuring signals is in the correspondingly predetermined range.  
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5. A medical measuring device as claimed in claim 4, characterized in that three different colors are provided for a range of poor quality, a range of medium and a range of high quality of the measuring signals.
- 25 6. A medical measuring device as claimed in any one of the preceding claims, characterized in that the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring signals automatically.

7. A medical measuring device as claimed in claim 6, characterized in that the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring signals when it is placed on a patient at another measuring site.

5 8. A medical measuring device as claimed in claim 6 or 7, characterized in that the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring signals, when a substantial change in the quality of the measuring signals is detected.

10 9. A medical measuring device as claimed in any one of the preceding claims, characterized in that the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring signals on demand (36).

10. A medical measuring device as claimed in any one of the preceding claims,  
15 characterized in that the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring signals in such a way that falling below a predetermined signal quality is signaled.

11. A medical measuring device as claimed in any one of the preceding claims,  
20 characterized in that the at least one measuring apparatus (12, 14) is designed to signal the quality of the measuring signals on the basis of an evaluation of one or more parameters such as perfusion index, transmission level, interference level, the signal form or the like.

12. A medical measuring device as claimed in any one of the preceding claims,  
25 characterized in that the at least one measuring apparatus is a pulsoximeter (14, 18), an ECG recorder (12, 16) and/or ultrasound measuring head.